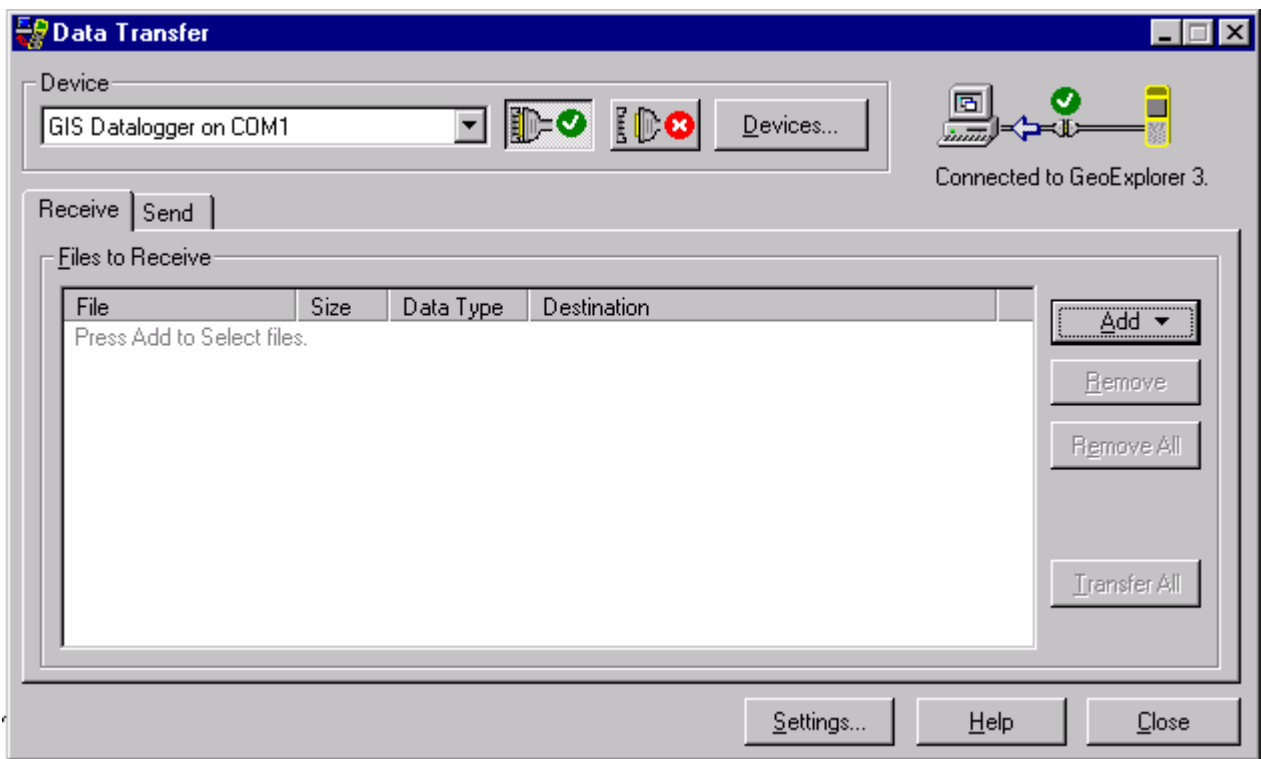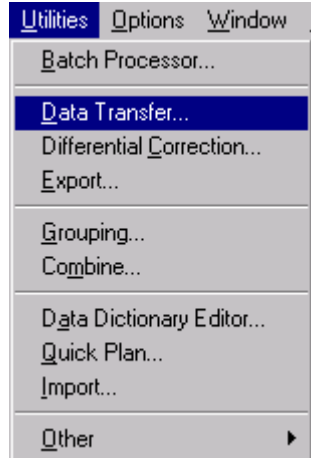# PATHFINDER OFFICE

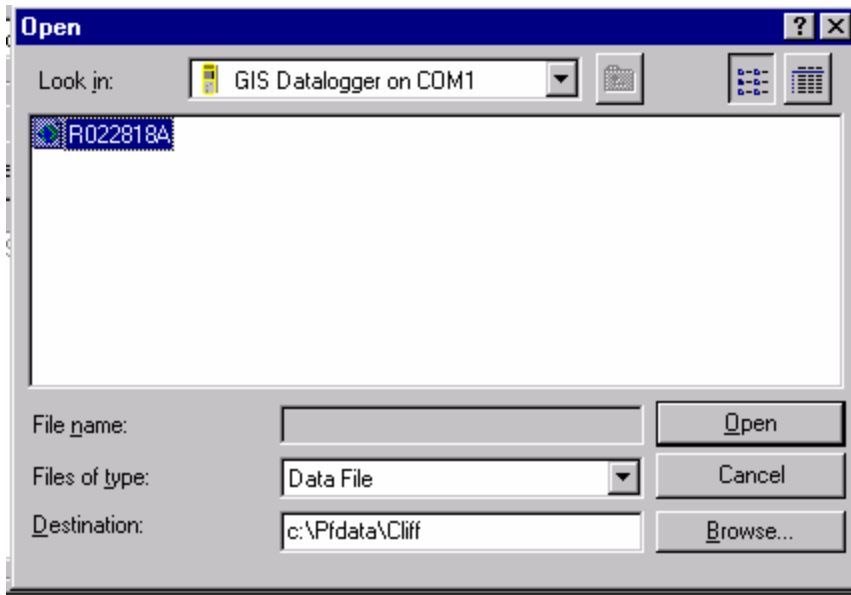**Transferring rover files to Pathfinder Office**

Select …. Utilities
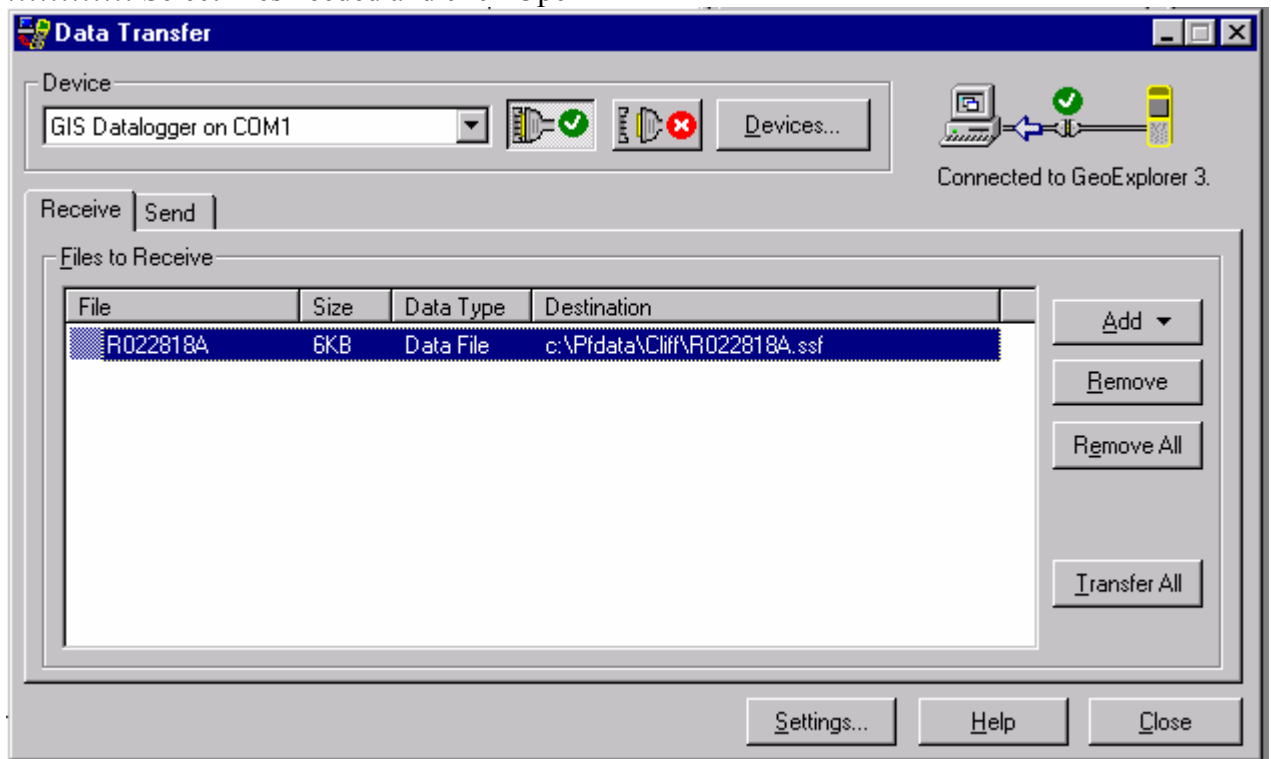
………… Data Transfer

………… Select the add button

………… Files for transfer are listed
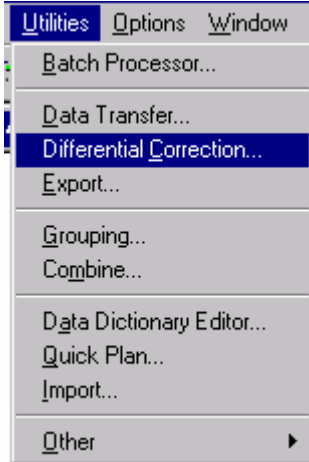………… Select files needed and click Open

………… Click Transfer all

Files are transferred from the data logger to Pathfinder Office.
All edit work should be done before differential correction.

Differentially Correcting Files
Select …. Utilities

………… Differential Correction

………… A window for both rover files and base files appears showing rover files
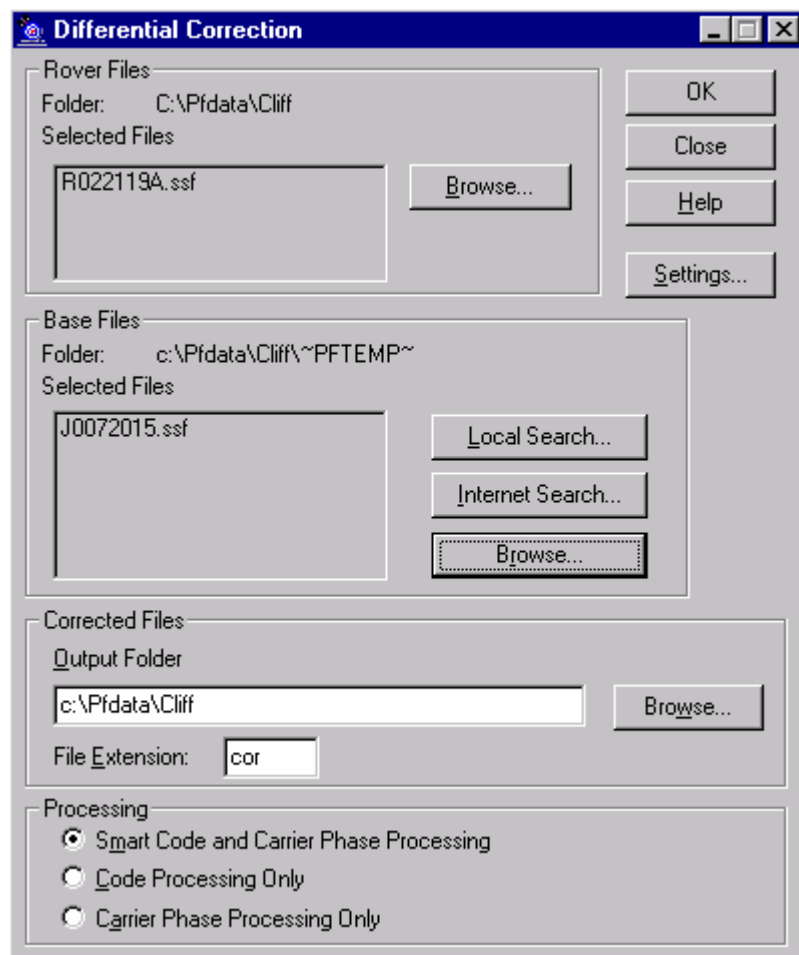
………… Select the internet search button to acquire base station files
………… Select base station to be used
………… Click on OK

Internet Search

Base Data Provider

USFS - Jewel Cave National Monument

OK

Cancel

New...   Delete   Properties...   Help
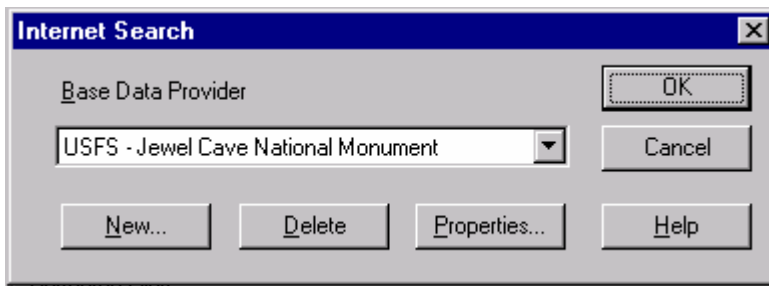
………… Click on OK again

Corrected files appear with a bulls-eye and .cor extension.

Creating Export Files
Select …. Files
………… Open
………… Select file to be exported. (File appears in window)

Select …. Utilities
………… Export

Utilities | **Options** | **Window**
Batch Processor...

Data Transfer...
Differential Correction...
Export...

Grouping...
Combine...

Data Dictionary Editor...
Quick Plan...
Import...

Other ▸

Export

Input Files
Folder: C:\Pfdata\Cliff
Selected Files:
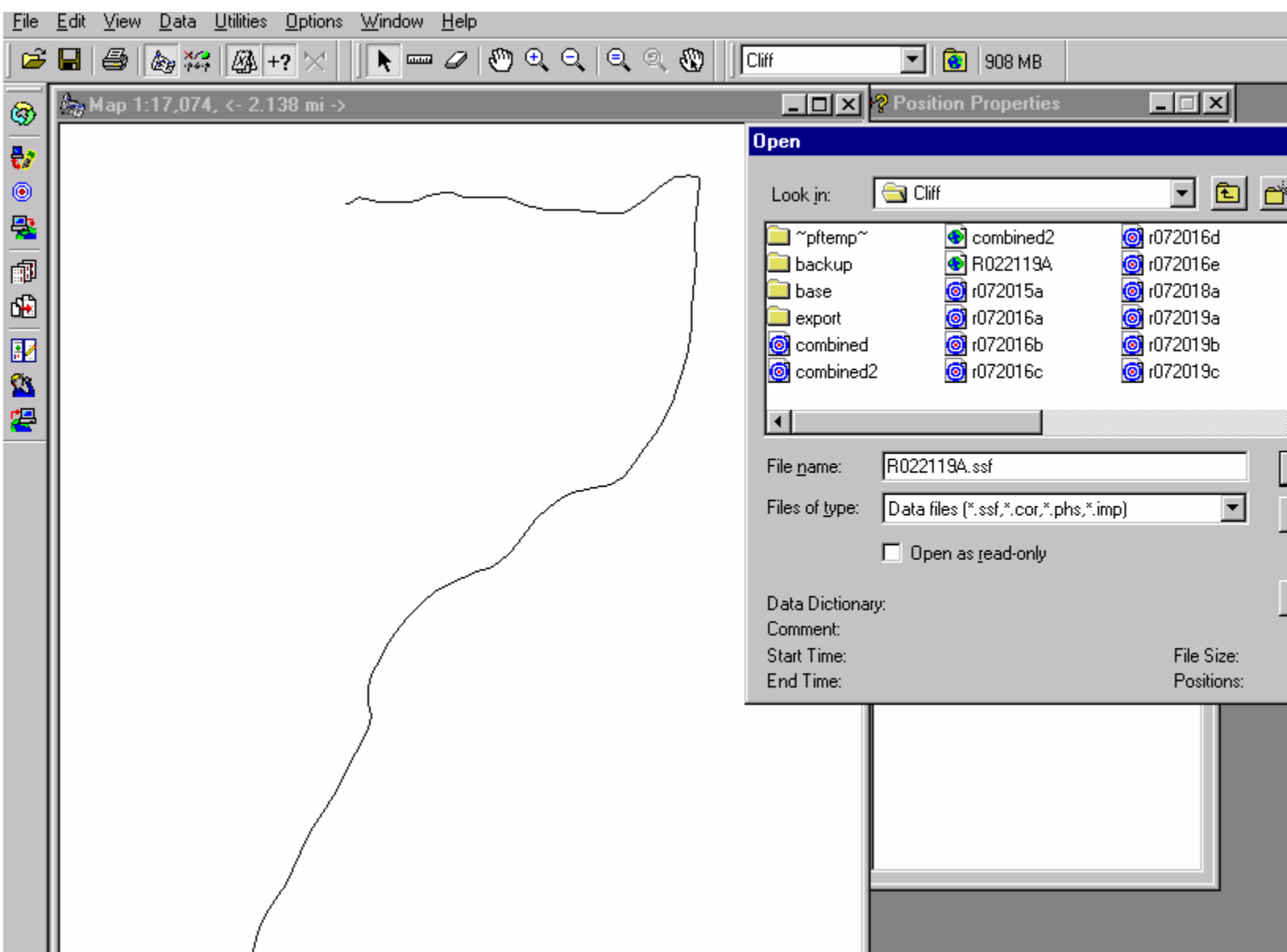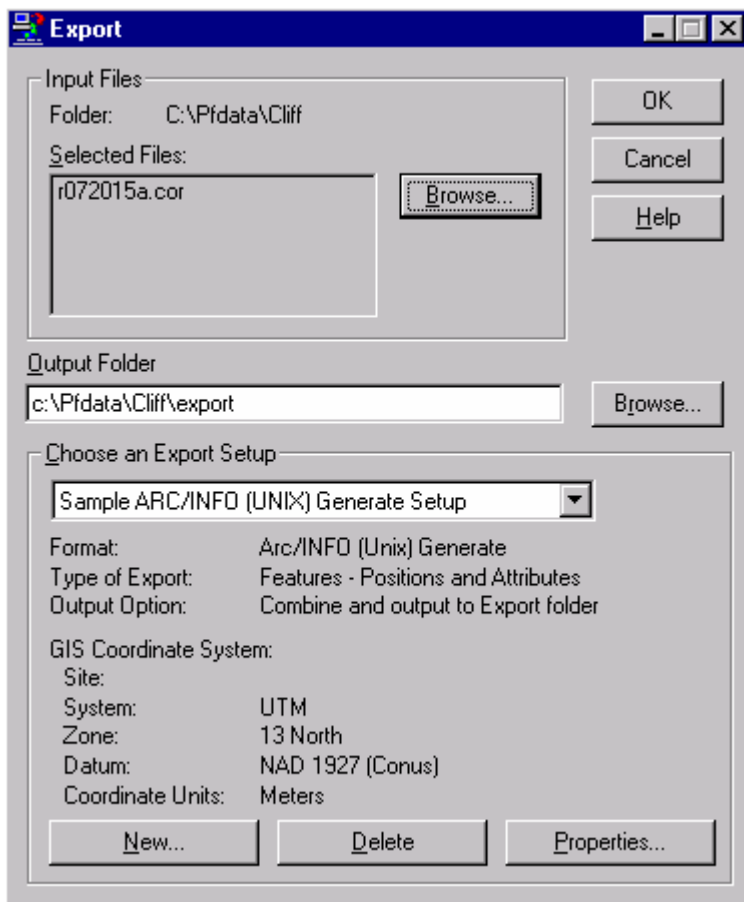
r072015a.cor   Browse...

OK
Cancel
Help

Output Folder
c:\Pfdata\Cliff\export   Browse...

Choose an Export Setup
Sample ARC/INFO (UNIX) Generate Setup ▾

Format: Arc/INFO (Unix) Generate
Type of Export: Features - Positions and Attributes
Output Option: Combine and output to Export folder

GIS Coordinate System:
  Site:
  System: UTM
  Zone: 13 North
  Datum: NAD 1927 (Conus)
  Coordinate Units: Meters

New...   Delete   Properties...

Window for input files, output folder and export setup appears.
………… If corrected file does not appear in input file click browse to select file.
………… Click Open after selecting files needed

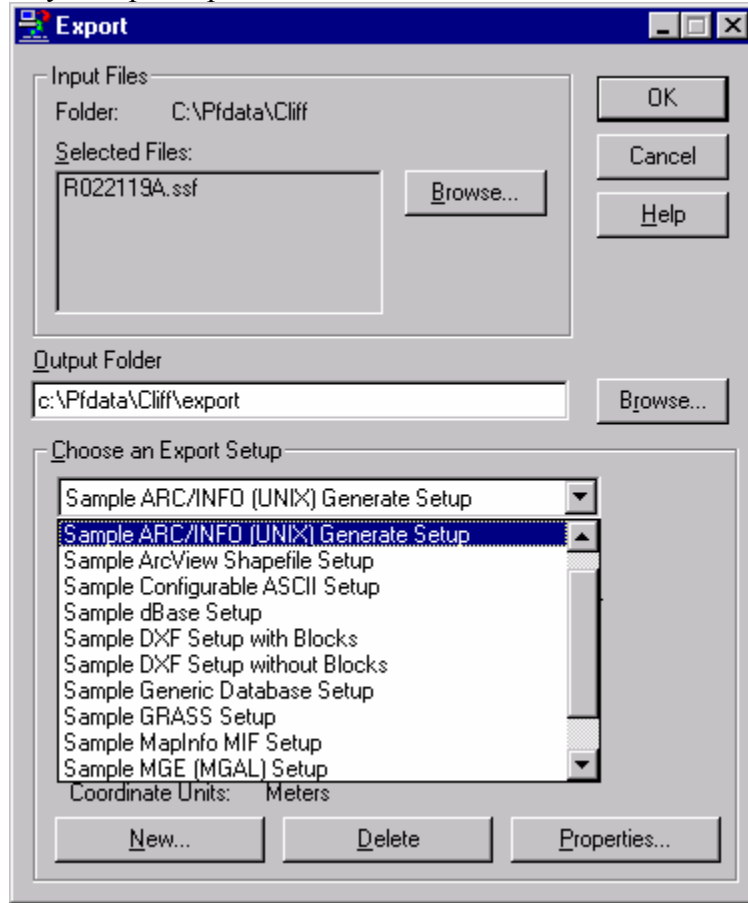………… Output folder will always be C:\Pfdata\Project\export and should be left that way except in special cases.

………… If the export format is not what you need click the new button and select the format you need. You will need to specify the parameters needed such as output format, attributes, units, position filter and coordinate system.
………… Click OK

The files created will depend on the data converted and could include:

.AA
AML
.GEN
.PA
.PTS

A *.GEN file is created only if data was output as a line or polygon.

A *.AA file is created only if line data was output with attributes.

A *.PTS file is created only if data was output as either points or polygons. If output as polygons, the file only contains the coordinates for the polygon label, not the polygon boundary.

A *.PA file contains the attribute information associated with point or polygon position data.

The *.AML file contains the ARC Macro Language commands used by Workstation ARC/INFO to create a coverage and build topology from PFINDER generated data files.

ARC/INFO

Transfer the export files to your Arc/Info workspace

Name	Size	Type	Modified	Attributes	
aa-road_	1KB	AA File	2/23/02 1:54 PM	A	
aa-road_	1KB	AML File	2/23/02 1:54 PM	A	
aa-road_	3KB	GEN File	2/23/02 1:54 PM	A	
a-milepo	1KB	AML File	2/23/02 1:54 PM	A	
a-milepo.pa	1KB	PA File	2/23/02 1:54 PM	A	
a-milepo.pts	1KB	PTS File	2/23/02 1:54 PM	A	
exp0223a	2KB	Text Document	2/23/02 1:54 PM	A	
gate	1KB	AML File	2/23/02 1:54 PM	A	
gate.pa	1KB	PA File	2/23/02 1:54 PM	A	
gate.pts	1KB	PTS File	2/23/02 1:54 PM	A	
intersec	1KB	AML File	2/23/02 1:54 PM	A	
intersec.pa	1KB	PA File	2/23/02 1:54 PM	A	
intersec.pts	1KB	PTS File	2/23/02 1:54 PM	A	
point-ge	1KB	AML File	2/23/02 1:54 PM	A	
point-ge.pa	1KB	PA File	2/23/02 1:54 PM	A	
point-ge.pts	1KB	PTS File	2/23/02 1:54 PM	A	
rd2903	24KB	Setup Information	2/23/02 1:54 PM	A	

IN ARC/INFO
…… Use the **_&r_** command to execute the AML's to create the coverage's
…… Use the **_rename_** command to change the newly created coverage names. (This is to prevent coverage's being overwritten).
…… If the data is all one type of coverage use **_mapjoin_** or **_append_** to combine the coverage's into one coverage.

Repeat this process for all the GPS files to be imported.

Once you have completed coverage's you will need to do a ***Projectdefine*** because the coverage has no coordinate system defined.

```
            Description of DOUBLE precision coverage aa-roads

                         FEATURE CLASSES

                               Number of  Attribute     Spatial
Feature Class          Subclass   Features   data (bytes)  Index?   Topology?
-------------          --------  ---------  ------------  -------  ---------
ARCS                                   1         416

                        SECONDARY FEATURES

Tics                                   4
Arc Segments                          97

                            TOLERANCES

Fuzzy    =               0.095 N         Dangle  =                 0.000 N

                        COVERAGE BOUNDARY

Xmin =          358719.497          Xmax =              359672.481
Ymin =          5170821.667         Ymax =              5171692.594

                              STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

                    NO COORDINATE SYSTEM DEFINED
```

Q

```
Command Prompt - arc                                          _ □ X
Arc: projectdefine cover aa-roads
Define Projection
Project: projection UTM
Project: units meters
Project: zone 13
Project: datum NAD27
Project: parameters
```

After defining a coordinate system you must reproject the cover to ALBERS.
…… At the ARC prompt

```
Command Prompt - arc                                                    _ □ ×
Arc: project cover aa-roads aa-roadsp

*********************************************************
*       The INPUT projection has been defined.       *
*********************************************************
Use OUTPUT to define the output projection and END
to finish.

Project: output
Project: projection albers
Project: zunits no
Project: units meters
Project: xshift 0
Project: yshift 0
Project: parameters
1st standard parallel                         [   0  0  0.000 ]: 45 37 30
2nd standard parallel                         [   0  0  0.000 ]: 48 22 30
central meridian                              [   0  0  0.000 ]: -110 0 0
latitude of projection's origin               [   0  0  0.000 ]: 44 30 0
false easting (meters)                        [      0.00000 ]: 0
false northing (meters)                       [      0.00000 ]: 0
Project: end
```

```
ARC                                                                     _ □ ×
                Description of DOUBLE precision coverage aa-roadspr

                           FEATURE CLASSES

                          Number of   Attribute    Spatial
Feature Class        Subclass   Features   data (bytes)  Index?   Topology?
-------------        --------   --------   ------------  -------  ---------
ARCS                                 1         416

                         SECONDARY FEATURES

Tics                                 4
Arc Segments                        97

                            TOLERANCES

Fuzzy    =              0.101 N          Dangle   =              0.000 N

                        COVERAGE BOUNDARY

Xmin =            241046.286         Xmax =            242052.676
Ymin =            246902.552         Ymax =            247832.746

                             STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

                    COORDINATE SYSTEM DESCRIPTION

Projection           ALBERS
Datum                NAD27
Units                METERS            Spheroid           CLARKE1866
Parameters:
```

  Continue   Pause   Quit